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8/13/03PATENT
Attorney Docket No. A-65353-6/RFT/RMS/RMK

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

MAYO, et al.

Serial No. 09/812,034

Filed: March 19, 2001

For: *Apparatus and Method for Automated
Protein Design*

Group No. 1637

Examiner: Kim, Young J.

CERTIFICATE OF FACSIMILE
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Diane M. Tsuda

AMENDMENT AND RESPONSE TO OFFICE ACTIONAssistant Commissioner for Patents
Washington, DC 20231

Sir:

This paper is being submitted in response to the Office Action mailed February 11, 2003. This response is filed on or before the due date of August 11, 2003, with a petition for a three-month extension of time, and appropriate fees. The Commissioner is authorized to charge any additional fees, including any extension fees, which may be required, or credit any overpayment to Deposit Account No. 502325.

In the Claims:Claims Listing:

Claims 1 -29 (Canceled)

30. (Currently Amended) A method executed by a computer under the control of a program, said computer including a memory for storing said program, said method comprising the steps of:

(A) receiving a protein backbone structure with variable residue positions of a desired target protein, said protein structure comprising:

i) a protein template structure comprising a protein backbone structure and at least one non-variable residue; and

ii) a plurality of variable residue positions;

(B) altering at least one supersecondary structure parameter value of said protein backbone structure of said protein;

(C) establishing a group of potential amino acids side chains for a plurality of for each of said variable residue positions of said protein; and